

TECHNYL® B 218 MT25 V15 BLACK 21 N

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

TECHNYL® B 218 MT25 V15 Black 21N is a polyamide 66/6, reinforced with 25% of mineral filler and 15% of glass fibre, heat stabilized, for injection moulding.

General Information				
Filler / Reinforcement		Glass \mineral, 40% filler by weight		
Additive		heat stabilizer		
Features		Heat Stabilized - Inorganic		
		Low warpage		
		Excellent appearance		
Uses		Accessories		
		Application in Automobile Field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA66/6-MD25+GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	4500	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	125	70.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	3.5	6.5	%	ISO 527-2
Fracture, 23°C	3.5	--	%	ISO 527-2
Flexural Modulus (23°C)	8100	3500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	3.8	6.0	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method

Melting Temperature	242	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	35	32	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.080		IEC 60250
Comparative Tracking Index (Solution A)	475	425	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	255 - 265		°C	
Middle Temperature	260 - 270		°C	
Front Temperature	270 - 280		°C	
Mold Temperature	70 - 100		°C	
Injection instructions				

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4h. Injection Advice:

For reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

